

CLAIMS

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1 1. A machine for printing sheets, in particular securities sheets, for printing unprinted  
2 sheets while not printing intermediate sheets, the machine having at least one feed (31) for  
3 unprinted sheets (32), a plate cylinder (35) with at least one printing plate, an impression  
4 cylinder (36), a wiping device (49) and an inking system (37, 38, 39, 40, 41, 42, 43, 44, 45) for  
5 inking the necessary zones of the plate or plates carried by the plate cylinder (35), wherein for  
6 an impression cylinder (36) which can carry N sheets on its periphery, N is a multiple of 2, the  
7 plate cylinder (35) comprises N/2 plates, so that half of the sheets (32) carried by the  
8 impression cylinder (36) are printed by each of the plates during one complete revolution of  
9 the cylinders (35, 36).

1 2. The printing machine as claimed in claim 1, wherein the N/2 plates are distributed  
2 symmetrically on the plate cylinder (35).

1 3. The printing machine as claimed in claim 1, wherein it additionally contains a feed  
2 device (46) for intermediate sheets, with which an intermediate sheet (47) is introduced  
3 between each sheet (32) to be printed, and wherein the sheet which is not printed by a plate is  
4 an intermediate sheet (47).

1 4. The printing machine as claimed in claim 3, wherein the intermediate sheets are  
2 fed on the impression cylinder (36).

1 5. The printing machine as claimed in one of claims 1, wherein N is equal to 2.

1 6. The printing machine as claimed in one of claims 1, wherein it comprises a  
2 delivery stack (34), on which the sheets from the impression cylinder are deposited after a  
3 complete revolution of the latter.

1 7. The printing machine as claimed in claim 6, wherein the inking system is an  
2 indirect inking system, comprising an ink collecting cylinder (45), which interacts firstly with  
3 at least one ink applicator cylinder (42, 43, 44) and secondly with the plate cylinder (35) in  
4 order to ink the necessary zones of the plate or plates carried by the plate cylinder (35).